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4.5 SOIL EXPOSURE PATHWAY

The soil exposure pathway was evaluated on the potential to release. No soil sampling has been conducted at the R-A site.

4.5.1 Target Populations

4.5.1.1 Resident Populations

There are no known residents living on the R-A site or within 200 feet of source areas at the R-A site (USGS 1960). The site is inactive; therefore, no workers are on-site.

4.5.1.2 Nearby Populations

Based on census data for the town of Rico, the Rico division and Dolores County, approximately 84 people live within one mile of the R-A site (USDOC 1990; USGS 1960). There are no restrictions to access of source materials on the site. Access roads lead to mine adits, mills, tailings and ponds with no gates or fencing (EPA 1984b). The R-A site is in a National Forest with high recreational use.

4.5.1.3 Terrestrial Sensitive Environments

The federal candidate species North American wolverine may utilize the site area as habitat (FWS 1994). Several montane riparian sensitive communities are also found in the area (CNHP 1994).

4.5.2 Soil Exposure Pathway Specific Data Gaps

After evaluating all potential site sources and associated nearby population targets, URS has determined that no significant data gaps exist.

No source sumpling has been conducted at the R-A site; and tack of soil samples No sal sampling has been conducted at the R-A site.

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5.0 SUMMARY

The R-A site is an inactive mining area which began operations over 100 years ago as a silver producer. In later periods of operation, base-metal production from sulfide ores and sulfuric acid from pyrite ores were the major goals of the mining operations. The site exists in two areas; The Rico-Argentine Mill, mines and associated tailings piles and ponds on Silver Creek and a sulfuric acid plant, cyanide heap leach pads and settling ponds on the Dolores River. Cyanide heap leaching has been used in two lined ponds with at least one minor release of leachate. All mine water drainage has been routed through underground workings to discharge from the St. Louis Tunnel Adit on the Dolores River. The discharge is treated with slaked lime and is under a Colorado Pollutant Discharge Elimination System permit with input from the EPA's NPDES division. The permit limits have been continuously violated with at least two Notice of Violation and Cease and Desist Orders issued by CDH.

The nearest residents are approximately three-quarters of a mile from the site. There are no restrictions to access to the site. Approximately six residents potentially use groundwater as a drinking water source. Several federally listed threatened and endangered species potentially use the area or exist within the specified target distance limits. Harvestable game fish are taken from the Dolores River within the fifteen-mile downstream target distance limit, but the quantity of fish taken from the river is unknown.

During this evaluation, also was able to identify the following significant data gaps which exist for the R.A site:

No source characterization has been conducted (air, surface material soil exposure pathways); and

Confirmation of harvestable quantities of field being collected from the Dolores River (surface water pathway);

Detruine the of existence of well ands along the Polores River (surface water pathway);

We sail sampling to been conducted at the R.A site.

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URS Consultants, Inc. ARCS, EPA Regions VI, VII and VIII Contract No. 68-W9-0053 Rico Argentina/SIP Revision: 0 Date: 6/94 Page 23 of 24

FIGURE 1

Radius of Influence Map

Area

HIGHLIGHTS:

A) IS THERE QUALITATIVE OR QUANTITATIVE EVIDENCE OF A RELEASE TO AIR, SURFACE WATER, GROUNDWATER, OR SURFACE SOIL? DESCRIBE BRIEFLY. More detail in items GW-1 (for groundwater pathway), SW-5 (for surface water pathway), A-1 (for air pathway), and SE-1 (for soil exposure pathway).

Yes, to surface water. Surface water samples collected for NPDES monitoring repeatedly detect violations of permit standards for several metals. Surface water and sediment samples collected from 1989 through 1993 by the Bureau of Reclamation show metals loading to the drainages.

B) IS THERE EVIDENCE OF AN IMPACTED TARGET POPULATION? DESCRIBE.

| Pathway | Target None/target Size | Brief Description | More Discussion In |
|---------------|---|--|-----------------------|
| Groundwater | Public drinking Water supply None Domestic drinking Water supply 6 | Three wells within a four-mile radius are listed as household use. No impacts noticed by users. | Section 4.3 |
| Surface Water | Drinking water None Fishery Yes Sens. env. N/A | CDOW improved aquatic habitat in 1982 which has increased trout populations to harvestable sizes. | Section 4.4 |
| Soil Exposure | People within 200' None Terrestrial sens. env. N/A | Federal candidate species and state species of concern potentially exist in site area. | Section 4.5 |
| Air | Population None | No air monitoring has been conducted. | Section 4.2 |



SITE INFORMATION

G-1. Directions to the site (from nearest easily recognized point).

> From Telluride, Colorado, proceed south on State Highway 145, over Lizard Head Pass, approximately 30 miles.

G-2. Are there other potential sources in the neighborhood to be aware of as the site is evaluated? eg. Is the site in an industrial area, near a railroad, along a highway? Are sources with similar contaminants to this site in the vicinity?

No. Site area is heavily mined, site sources are major sources in the area.

Source of information: USGS 1900; USGS 1905; USGS 1974

Background/Operating History

G-3. Describe the operating history of the site:

> Early mining began in 1861. Silver production peaked in the 1890s and base-metal ore production peaked in 1927. A sulfuric acid production plant operated from 1955 through 1964. All mining operations ceased in 1971. Cyanide heap leaching occurred from 1973 through the late 1970s. Anaconda Minerals Company owned the property from 1980 to 1988 and explored for molybdenum. Rico Development Corporation owned the property from 1988 to April 1994 when they sold their interests to Azure, Inc., from Phoenix, Arizona. A NPDES permit was obtained in 1976. Frequent violations of the permit have occurred. BOR sampling shows loading of heavy metals to the adjoining surface water drainages.

Source of information:

ACC 1994; BOM 1915; BOM 1939a; BOM 1939b; BOM 1940; BOM 1942b; BOM 1943; BOM 1949a; BOM 1974; CDH 1988; DOM 1975a; DOM 1975b; DOM 1980; DOM 1981; DOM 1982; DOM 1983; E&E 1984a; E&E 1984b; E&E 1985; E&E 1991a; E&E 1991b.

G-4. Describe site and nature of operations (property size, manufacturing, waste disposal, storage etc.):

See #G-3. Approximate site acreage is 2,500 acres. Sources cover approximately 75 acres. Tailings piles, tailings ponds and settling ponds typical of hardrock mining comprise the source areas.

Source of information: EPA 1984a; EPA 1984b; USGS 1905; USGS 1974; EMD 1994.

G-5. Describe any emergency or remedial actions that have occurred at the site:

None. Anaconda did some environmental work (plugged adits, maintained settling ponds, built water treatment plant) while they owned the property.

Source of information: ACC 1994, CDH files, EPA files.

G-6. Are there records or knowledge of accidents or spills involving site wastes? Are there Emergency Response Notification (ERNs) reports for this location?

None.

Source of information: EPA files.

G-7. Describe existing sampling data and briefly summarize data quality (e.g. sample objective, age/comparability, analytical methods, detection limits, QA/QC, validatability):

Sampling of surface water is conducted periodically for the NPDES permit. Methods and QA/QC are unknown. BOR sampling has been conducted yearly to trace mercury and other metals loading in the Dolores River and its tributaries.

Source of information: BOR 1994, WMD 1994.

G-8. Is there any other local, state or federal regulatory involvement? Describe. Include permits, and names of contact individuals within each government organization.

| AGENCY | PROGRAM | CONTACT | PHONE | PERMIT |
|--------|---------|---------------------|----------|------------|
| CDH | NPDES | Kathleen Kalamen | 692-3603 | CO-0029793 |
| | | | | |
| | | | , - | |
| | / | 4 | | |
| | | | | |

G-9. Attach site sketch or schematic. Include all pertinent features including wells, storage areas, underground storage tanks, source areas, buildings, access roads, areas of ponded water. Refer to figure(s) submitted with text of report if appropriate.

Refer to figures 1 and 2.

SOURCE CHARACTERIZATION

Describe each source at the site, on Table 1, in terms of source type, containment, WC-1. size/area/volume/quantity, and substances present. See HRS Tables 2-5 and 5-2 for source descriptions, Tables 3-2, 4-2, 4-8, 5-6, 6-3, and 6-9 for containment.

Briefly describe how waste quantity was estimated (eg. historical records or manifests, permit applications, air photo measurements, etc.):

> EPA's sampling team in 1984 estimated the total size and amount of source material on the site.

Source of information: EPA 1984a; EPA 1984b.

WC-3. Describe any restrictions or barriers to accessibility of on-site sources.

None.

Source of information:

1984b.

GROUNDWATER CHARACTERISTICS

GW-1. Any positive or circumstantial evidence of a release to groundwater? Describe.

Yes. Surface water and sediment sampling show metals loading to these media. Valley fill and alluvial material form an unconfined aquifer that potentially interacts with mine water discharge and surface water bodies. No specific groundwater sampling has been conducted other than mine discharge for NPDES monitoring.

Source of information: EPA 1984b; USGS 1900; USGS 1905; USGS 1974; WMD 1994.

GW-2. Any positive or circumstantial evidence of a release to drinking water users? Describe analytes, detection limits, background, hits, number of users, locations, QA/QC.

None reported. Three household use wells are within the four-mile target distance limit and serve approximately six residents. Two of these wells are approximately three-quarters of a mile upgradient. The other is approximately one and one-half miles downgradient. All other drinking water sources are surface water diversions from above the site area.

Source of information: CDH files; EPA files; WMD 1994.

GW-3. Briefly describe the geologic setting.

Alluvial material from wash and landslides masks the underlying geology. A shallow unconfined aquifer exists in the alluvial material. The Cutler Formation is the youngest formation exposed at the site and is at least 2,800 feet thick. Fractures in bedrock forms a deeper aquifer. Geothermal Springs are found in the site area.

| GW-4. characte | Describe geologic/hydrogeologic units on Table 2. Give names, descriptions, and ristics of consolidated and unconsolidated zones beneath the site. |
|-------------------|---|
| | |
| GW-5. | Is the site in an area of karst terrain or a karst aquifer? |
| | No |
| GW-6. | Net Precipitation (per HRS section 3.1.2.2). |
| | 4.1 inches. |
| SURFAC | CE WATER CHARACTERISTICS |
| SW-1. count in | Mean annual precipitation (per HRS section 4.0.2)= $\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$ |
| | |
| SW-2. | Discuss the probable surface water flow pattern from the site to surface waters: |
| | The tailings piles from the Rico-Argentine Mill are in Silver Creek with tailing ponds apparently draining directly into Silver Creek. The St. Louis Tunnel Adit drains into a slaked lime treatment system and then a series of settling ponds before discharging into the Delores River. This discharge has a NPDES permit. |
| | Source of information: EPA 1984b; WMD 1994. |

SW-3. If surface water exists within 2 miles of the site, describe surface water segments within the 15-mile distance limit.

| Segment Name | River/Lake/Type | Fresh/Salt Water | Start (mi.) | End (mi.) | Flow In cfs |
|---------------|-----------------|---------------------|-------------|-----------|-------------|
| Dolores River | River | Fresh | 0 | 15 | 136 |
| Silver Creek | Creek | Fresh | 0 | .75 | NPNIA |
| | | | | | |
| | | 1-1 | | | |
| | | | | | |

| Groundwater to surface water distance | N/A | Angle ⊕ |
|---------------------------------------|-----|---------|
|---------------------------------------|-----|---------|

SW-4. Provide a schematic diagram or simple figure which describes surface water segments, locates targets, identifies flow direction, PPE(s), etc. Refer to figure(s) submitted with text of report if appropriate.

Refer to figures 1 and 2.

SW-5. Any positive or circumstantial evidence of a release to surface water? Evidence of a release by direct observation? Is the source located in surface water? Describe.

Yes. Tailing piles are placed in Silver Creek and tailings ponds are discharging to Silver Creek. Surface water and sediment samplings performed by BOR in Silver Creek and the Dolores River show metals loading occurring. The NPDES monitoring sampling show repeated exceedances of permit standards for metals.

Source of information: BOR 1994, WMD 1994.

SW-6. Any positive or circumstantial evidence of a release to surface water target populations? Describe analytes, detection limits, background, hits, number of users, locations, QA/QC.

No. An ACC contractor in the 1980s found decreased aquatic life in the Dolores River below the site but could not attribute the situation to the site. No target-specific sampling has been conducted at this site.

Source of information:

EPA 1984b.

SW-8. Is the site or portions thereof located in surface water?

Yes.

Is the site located in the 1 - <10 yr floodplain?

>10-100 yr?

>100-500 yr?

>500 yr?

SW-9. Two-year 24-hour rainfall 1.5"

TARGETS

T-1. Discuss groundwater usage within four miles of the site:

There are no municipal wells within the specified four-mile target distance limit. Five wells are listed by the CSE; one owned by the CDOT for wash water in a maintenance shop, one is listed as industrial use and three are listed as household use. Two of the household wells are approximately three-quarters of a mile upgradient and one is approximately three-quarters of a mile downgradient.

Source of information:

CSE 1994, USDOC 1990.

T-2. Summarize the drinking water population served via groundwater within four miles of the site:

Attach calculations for population apportionment in blended systems.

T-3. Identify and locate any of the following surface water targets within 15 miles of the site: drinking water population(s) served by intakes, fisheries, sensitive environments described in Table 4-23 of the HRS, and wetlands as defined in the Federal Register.

| Targets | Dist. From Site | | | Population Served/Size (Incl. Units) | Contamination Known/Suspected |
|---------------------|--------------------|------------------|-----|--|----------------------------------|
| Montane riparian | 4 miles | Dolores River | 136 | N/A ND | Metals |
| Dolores Fishery | 1 mile | Dolores River | 136 | N/A ND | Metals |
| | | | | | |

One surface water diversion is listed as multiple use including domestic. This diversion is the St. Louis Tunnel, actual domestic use is unknown.

T-4. Summarize the population within a four-mile radius of the site:

| | Total Pop. | Worker Pop. |
|--------------|------------|-------------|
| on site | 0 | 0 |
| 0 - 1/4 mi | 0 | |
| 1/4 - 1/2 mi | 8 | |
| 1/2 - 1 mi | 76 | |
| 1 - 2 mi | 18 | |
| 2 - 3 mi | 00 | \ |
| 3 - 4 mi | 1/0 | \ |

T-5. Identify and locate any terrestrial sensitive environments described in Table 5-5 of the HRS.

Potential habitat for federal candidates species, North American Wolverine and Northern Gas Hawk. Potential habitat for federally listed threatened and endangered Bald Eagle, Peregrine Falcon and Mexican Spotted Owl. Potential habitat for montane riparian forest that is ranked very rare globally and in Colorado.

T-6. Describe any positive or circumstantial evidence of a release to air target populations? Of a release by direct observation where target population exists within 1/4 mile of the site? Describe analytes, detection limits, background, hits, number of users, locations, QA/QC.

No air monitoring has been conducted at this site. No observations are available concerning dust from tailings or ponds blowing offsite.

T-7. Identify and locate any potential or known resident soil exposure populations, if present. Describe conditions which lead the researcher to suspect contaminated soil within 200' of residences, if this condition exists.

None known.

TABLE 1 WASTE CONTAINMENT AND HAZARDOUS SUBSTANCE IDENTIFICATION1

| SOURCE TYPE | SIZE (Volume/Area) | ESTIMATED WASTE QUANTITY | SPECIFIC COMPOUNDS | CONTAINMENT ² | SOURCES OF INFORMATION |
|----------------------|-----------------------|-----------------------------|-----------------------|--------------------------|------------------------|
| Tailing piles, ponds | 75 acres | 400,000 tons | Heavy metals, cyanide | None | CDH files; EPA files |

Mine Adits

1.5 Mathier Gallow Henry metals Line treatment wHD files.

¹ Use additional sheets if necessary.

² Evaluate containment of each source from the perspective of each migration pathway (e.g., groundwater pathway non-existent, natural or synthetic liner, corroding underground storage tank; surface water - inadequate freeboard, corroding bulk tanks; air - unstabilized slag piles, leaking drums, etc.)

TABLE 2
HYDROGEOLOGIC INFORMATION¹

| STRATA NAME/DESCRIPTION | THICKNESS (ft.) | HYDRAULIC CONDUCTIVITY (cm/sec) | TYPE OF DISCONTINUITY ² | SOURCE OF INFORMATION |
|---------------------------------------|--------------------|------------------------------------|------------------------------------|--|
| Alluvial Fill | 10 -4 0 | 10° ² | None | EPA 1984b; Office of the Federal Register 1990; USGS 1900; USGS 1905; USGS 1974 |
| Bedrock (Cutler and older Formations) | · 2,800 | 10⁻⁵ | None | EPA 1984b; Office of the Federal Register 1990; USGS 1900; USGS 1905; USGS 1974 |

¹ Use additional sheets if necessary.

Identify the type of aquifer discontinuity within four-miles from the site (e.g., river, strata "pinches out", etc.).

SITE INSPECTION PRIORITIZATION INDEX

- 1) Site Historical Information
 - reports, correspondence, press clippings, interviews, maps, schematics, permits, ownership records, waste characteristics, analytical data
- 2) Correspondence
- 3) Field Information
 - log books, site access agreements, photographs and negatives, field sampling plan
- 4) Health and Safety
 - site health and safety plan, MSDS
- 5) General Site Characterization
 - geology, hydrology, hydrogeology, meteorology, maps
- 6) Interpretative or Final Reports
- 7) Target Information
 - ground water users, surface water users, population data, wetlands maps, land use maps, wind roses
- 8) QA/QC

Date: 01/19/95

| 41881 41-10-81012 DATE: MAY 25, 1994 | FROM: U.S. DEPT. OF AG. | TO: | URS | SUBJ: INFO RE NEW OWNERS OF RICO DEVELOPMENT CORP'S HOLDINGS |
|--|-----------------------------------|-----|----------|---|
| 41881 41-10-B1014 DATE: 1915-1983 | FROM: COLORADO BUREAU OF MINES | 10: | PUBLIC | SUBJ: INSPECTOR'S DAILY REPORTS/INFORMATION REPORTS/OPERATOR'S ANNUAL REPORTS |
| 41881 41-10-B1013 DATE: 1984-1988 | FROM: CDH | TO: | PUBLIC | SUBJ: SITE INFORMATION FROM COLORADO DEPT OF HEALTH FILES |
| 41881 41-20-B1027 DATE: JAN 20, 1994 | FROM: URS | то: | EPA | SUBJ: LETTER RE CLOSEOUT AND TRANSFER OF FILES |
| 41881 41-30-B1015 DATE: MARCH 1994 NOTES: 40 PAGES | FROM: URS | TO: | URS . | SUBJ: LOGBOOK #268 (CARR) |
| 41881 41-50-B1016 DATE: SEPT 27, 1993 | FROM: CDH | 10: | PUBLIC | SUBJ: CLASSIFICATIONS AND NUMERIC STANDARDS FOR SAN JUAN RIVER AND DOLORES |
| 41881 41-50-B1020 DATE: 1905 | FROM: USGS | TO: | PUBLIC . | SUBJ: EXCERPTS FORM "GEOGRAPHY AND GENERAL GEOLOGY OF THE RICO QUADRANGLE" |
| 41881 41-50-B1018 DATE: AUG 1974 | FROM: U.S. DEPT. OF INTERIOR | то: | PUBLIC | SUBJ: EXCERPTS FROM "GEOLOGY AND ORE DEPOSITS OF THE RICO DISTRICT" |
| 41881 41-50-B1019 DATE: 1900 | FROM: USGS | TO: | PUBLIC | SUBJ: EXCERPTS FROM "GEOLOGY OF THE RICO MOUNTAINS, COLORADO" |
| 41881 41-50-B1017 DATE: AUG 4, 1975 | FROM: STATE OF COLORADO | TO: | PUBLIC | SUBJ: RECONNAISSANCE ENGINEERING GEOLOGY REPORT FOR PLANNING DISTRICT 9 |
| 41881 41-60-B1028 DATE: MARCH 1994 | FROM: URS | TO: | URS | SUBJ: CERCLA ELIGIBILITY WORKSHEET |
| 41881 41-70-B1026 DATE: APRIL 6, 1994 | FROM: STATE OF COLORADO | TO: | PUBLIC | SUBJ: COLORADO WELLS, APPLICATIONS AND RESOURCES/WATER RIGHTS REPORT |
| 41881 41-70-B1025 DATE: 1990 | FROM: U.S. CENSUS BUREAU | TO: | PUBLIC | SUBJ: HOUSEHOLD, FAMILY AND GROUP QUARTERS CHARACTERISTICS/LAND AREA AND POPULATION DENSITY |
| 41881 41-70-B1023 DATE: MAY & JUNE 1990 | | TO: | URS | SUBJ: INFO RE FEDERALLY LISTED SPECIES NEAR SITE |
| 41881 41-70-B1024 DATE: APRIL 13, 1994 | | TO: | URS | SUBJ: INFO RE SIGNIFICANT NATURAL COMMUNITIES AND RARE, THREATENED OR ENDANGERED SPECIES |
| 41881 41-70-B1022 DATE: JUNE 6, 1994 | FROM: STATE OF COLORADO | 10: | URS | SUBJ: INFO RE STATE SENSITIVE WILDLIFE SPECIES NEAR SITE |
| 41881 41-70-81021 DATE: MAY 25, 1994 | FROM: U.S. DEPT OF INTERIOR | TO: | URS | SUBJ: WATER QUALITY AND SEDIMENT DATA ON THE DOLORES RIVER |
| 41881 41-80-B0662 DATE: OCT 11, 1994 NOTES: 1 VOL | FROM: URS | 10: | EPA | SUBJ: REV 0: SITE INSPECTION PRIORITIZATION/RICO-ARGERNTINE, RICO, COLORADO |

PROJECT FILE

| FILE NAME | CLOSEOUT | JOB NUMBER | 41881.41 | FILE NUMBER | ALL |
|------------|-------------|--------------------|------------|----------------|-----|
| SITE NAME | SITE INSPEC | TION PRIORITIZATIO | N: RICO-AR | GENTINE, RICO, | |
| COLORADO | | | | | |
| SITE MANAG | GER MICHAE | L V. CARR | | | |

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U.S. DEPARTMENT OF AGRICULTURE

U.S. FOREST SERVICE San Juan National Forest Dolores Ranger District 100 N. 6th, P.O. Box 210 Dolores, Colorado 81323

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303-728-3366

Mike

As you requested here is a copy of the business course of the folks who just bought all of Rico Development Corporations holdings- Mike

Meile would be your contact if you want the speake date the transaction took place.

Feel free to call me if you have any other

questions.

Nancy M'Gariga 363-882-7296

41881 og No. 41,10 ,B1012

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